

**BETZDEARBORN MATERIAL
SAFETY DATA SHEET**



EFFECTIVE DATE: 12-APR-1999
PRINTED DATE: 02-AUG-1999

1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : SPEC-AID 8Q462

PRODUCT APPLICATION AREA: DISTILLATE FUEL STABILIZER.

COMPANY ADDRESS:

BetzDearborn Inc.
4636 Somerton Road, Trevose, Pa. 19053
Information phone number: (215) - 355-3300

EMERGENCY TELEPHONE (HEALTH/ACCIDENT): (800)-877-1940 (USA)

2) COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

CAS#	CHEMICAL NAME
64742-94-5	SOLVENT NAPHTHA, PETROLEUM, HEAVY AROMATIC Combustible liquid; irritant (eyes) TRADE SECRET INGREDIENT(561);TSRN 125438 - 5273P Nuisance oil mist TRADE SECRET INGREDIENT(428);TSRN 125438 - 5266P Irritant (eyes)
91-20-3	NAPHTHALENE Irritant; absorbed by skin; sensitizer; toxic to liver, kidney, and blood

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

3) HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING

May cause moderate irritation to the skin. May cause dermatitis.
Severe irritant to the eyes. Vapors, gases, mists or aerosols may
cause irritation to the upper respiratory tract. Prolonged exposure
may cause dizziness and headache.

DOT hazard: Combustible liquid
Emergency Response Guide #128
Odor: Strong; Appearance: Amber To Brown, Liquid

Fire fighters should wear positive pressure self-contained breathing
apparatus(full face-piece type). Proper fire-extinguishing media:
Dry chemical, carbon dioxide, foam or Halon--Avoid water if
possible.

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:

Primary route of exposure; May cause moderate irritation to the
skin. May cause dermatitis.

ACUTE EYE EFFECTS:

Severe irritant to the eyes.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure;Vapors, gases, mists or aerosols may
cause irritation to the upper respiratory tract. Prolonged exposure
may cause dizziness and headache.

INGESTION EFFECTS:

May cause gastrointestinal irritation with possible nausea,
vomiting, abdominal discomfort and diarrhea. Small amounts
aspirated during ingestion or vomiting may cause lung injury,
possibly leading to death.

TARGET ORGANS:

Prolonged or repeated exposures may cause CNS depression and/or
defatting-type dermatitis.

MEDICAL CONDITIONS AGGRAVATED:

Not known.

SYMPTOMS OF EXPOSURE:

Excessive dermal exposure causes defatting and drying of skin.
Excessive inhalation of vapors causes dizziness, headache and
nausea.

4) FIRST AID MEASURES

SKIN CONTACT:

Remove contaminated clothing. Wash exposed area with a large quantity of soap solution or water for 15 minutes.

EYE CONTACT:

Immediately flush eyes with water for 15 minutes. Immediately contact a physician for additional treatment.

INHALATION:

Remove victim from contaminated area to fresh air. Apply appropriate first aid treatment as necessary.

INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

5) FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide, foam or Halon--Avoid water if possible.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

FLASH POINT:

165F 74C P-M(CC)

MISCELLANEOUS:

Combustible liquid
NA1993;Emergency Response Guide #128

6) ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Remove ignition sources. Flush area with water. Spread sand/grit.

DISPOSAL INSTRUCTIONS:

Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7) HANDLING AND STORAGE

HANDLING:

Combustible. Do not use around sparks or flames. Bond containers during filling or discharge when performed at temperatures at or above the product flash point.

STORAGE:

Keep containers closed when not in use. Store in cool ventilated location. Store away from oxidizers.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	EXPOSURE LIMITS
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SOLVENT NAPHTHA, PETROLEUM, HEAVY AROMATIC

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

MISC: Note- manufacturer's recommended exposure limit: 100 ppm.

TRADE SECRET INGREDIENT(561);TSRN 125438 - 5273P

PEL (OSHA): 5 MG/M3(MIST)

TLV (ACGIH): 5 MG/M3(MIST)

TRADE SECRET INGREDIENT(428);TSRN 125438 - 5266P

PEL (OSHA): 10 MG/M3

TLV (ACGIH): 10 MG/M3

NAPHTHALENE

PEL (OSHA): 10 PPM

TLV (ACGIH): 10 PPM

ENGINEERING CONTROLS:

Adequate ventilation to maintain air contaminants below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Use protective equipment in accordance with 29CFR 1910 Subpart I

RESPIRATORY PROTECTION:

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.

If air-purifying respirator use is appropriate, use a respirator with organic vapor cartridges and dust/mist prefilters.

SKIN PROTECTION:

nitrile gloves-- Wash off after each use. Replace as necessary.

EYE PROTECTION:

splash proof chemical goggles

9) PHYSICAL AND CHEMICAL PROPERTIES

Density	7.5 lbs/ga	Vapor Pressure (mmHG)	< 5.0
Freeze Point (F)	-60	Vapor Density (air=1)	> 1.00
Freeze Point (C)	-51		
Viscosity(cps 70F,21C)	18	% Solubility (water)	< 0.0
Odor	Strong		
Appearance	Amber To Brown		
Physical State	Liquid		
Flash Point	P-M(CC)	165F	73C
pH 5% Extract (approx.)		6.0	
Evaporation Rate (Ether=1)		< 1.00	

NA = not applicable ND = not determined

10) STABILITY AND REACTIVITY

STABILITY:
Stable under normal storage conditions.
HAZARDOUS POLYMERIZATION:
Will not occur.
INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
Thermal decomposition (destructive fires) yields elemental oxides.
BETZDEARBORN INTERNAL PUMPOUT/CLEANOUT CATEGORIES:
"B"

11) TOXICOLOGICAL INFORMATION

Oral LD50 RAT:	>2,000 mg/kg
NOTE - Estimated value	
Dermal LD50 RABBIT:	>2,000 mg/kg
NOTE - Estimated value	

12) ECOLOGICAL INFORMATION

AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Acute Bioassay
The properties of this product caused physical stress to the organisms in the lowest concentration tested.

LC50: 28.3 mg/L
0% Mortality: 6.3 mg/L

Fathead Minnow 96 Hour Static Acute Bioassay

LC50: 7.7 mg/L
No Effect Level: 6.3 mg/L

BIODEGRADATION

No Data Available.

13) DISPOSAL CONSIDERATIONS

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14) TRANSPORT INFORMATION

DOT HAZARD:	Combustible liquid
UN / NA NUMBER:	NA1993
DOT EMERGENCY RESPONSE GUIDE #:	128

15) REGULATORY INFORMATION

TSCA:

All components of this product are listed in the TSCA inventory.

CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

154 gallons due to NAPHTHALENE; Treat as oil spill

SARA SECTION 312 HAZARD CLASS:

Immediate(acute);Delayed(Chronic);Fire

SARA SECTION 313 CHEMICALS:

CAS#	CHEMICAL NAME	RANGE
91-20-3	NAPHTHALENE	6.0-10.0%

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC
ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:

No regulated constituent present at OSHA thresholds

MICHIGAN REGULATORY INFORMATION

CAS#	CHEMICAL NAME
91-20-3	NAPHTHALENE

16) OTHER INFORMATION

NFPA/HMIS		CODE TRANSLATION	
Health	2	Moderate Hazard	
Fire	2	Moderate Hazard	
Reactivity	0	Minimal Hazard	
Special	NONE	No special Hazard	
(1) Protective Equipment	B	Goggles,Gloves	

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

EFFECTIVE		REVISIONS TO SECTION:	SUPERCEDES
DATE			
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MSDS status:	12-APR-1999		** NEW **